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SUPPLEMENTARY EUROPEAN SEARCH REPORT

Application number:
EP 15 86 81 40

Classification of the application (IPC):
C12Q 1/6886

Technical fields searched (IPC):
C12Q

DOCUMENTS CONSIDERED TO BE RELEVANT		
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim
X	US 2014274748 A1 (AHLQUIST DAVID A [US] ET AL) 18 September 2014 (2014-09-18) * FPI2, BMP3, NDRG4, and vimentin as methylation markers for detecting colorectal cancer.;claim 1 *	1-5, 9
X	WO 0218632 A2 (EPIGENOMICS AG [DE]; OLEK ALEXANDER [DE]; PIEPENBROCK CHRISTIAN [DE];) 07 March 2002 (2002-03-07) * Oligonucleotide for detecting cytosine methylation SEQ ID NO 26154 =SEQ ID NO:27 of the present applicationOligonucleotide for detecting cytosine methylation SEQ ID NO 28019=SEQ ID NO:54 of the present applicationOligonucleotide for detecting cytosine methylation SEQ ID NO 38160=SEQ ID NO:57 of the present application * & DATABASE Geneseq [Online] "Oligonucleotide for detecting cytosine methylation SEQ ID NO 28019.", 12 July 2002 (2002-07-12), retrieved from EBI accession no. GSN:ABQ41428, Database accession no. ABQ41428, retrieved from EBI * sequence * & DATABASE Geneseq [Online] "Oligonucleotide for detecting cytosine methylation SEQ ID NO 38160.", 12 July 2002 (2002-07-12), retrieved from EBI accession no. GSN:ABQ51569, Database accession no. ABQ51569, retrieved from EBI * sequence *	10-15
X	US 2013129668 A1 (FIRESTEIN GARY [US] ET AL) 23 May 2013 (2013-05-23) * SEQ ID NO:89876 = NDRG4;page 43; table 8 * * SEQ ID NO:143680 = ZDHHC1;page 63; table 8 *	10-15
T	KISIEL JOHN B ET AL: "185 Novel Stool DNA Markers for Inflammatory Bowel Disease Associated Colorectal Cancer and High Grade Dysplasia: High Specificity Across Three Independent International Populations" <i>GASTROENTEROLOGY</i> , 20160401 - 20160401, vol. 150, no. 4, DOI: 10.1016/S0016-5085(16)30286-4, ISSN: 0016-5085, XP029511520	

The supplementary search report has been based on the last set of claims valid and
available at the start of the search.

Place of search The Hague	Date of completion of the search 03 May 2018	Examiner Gabriels, Jan
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CATEGORY OF CITED DOCUMENTS

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| X: particularly relevant if taken alone | P: intermediate document |
| Y: particularly relevant if combined with another
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| O: non-written disclosure | D: document cited in the application |
| &: member of the same patent family, corresponding document | L: document cited for other reasons |

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LACK OF UNITY OF INVENTION

The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

1. claims: 1-5

A method of screening for a neoplasm in a sample obtained from a subject by determining the amount of at least one methylated marker gene selected from the group consisting of vimentin, septin 9, NDRG4, BMP3, VA V3, SFMBT2_897, and TFPI2a, and assaying said sample for an amount of methylated ZDHHC1 DNA in said sample as a reference to determine a methylation state for said at least one marker gene in said sample. Kits and compositions comprising probes specific for ZDHHC1 and at least one of vimentin, septin 9, NDRG4, BMP3, VA V3, SFMBT2_897, and TFPI2a.

2. claims: 6-8

A method of measuring the severity of inflammation in a subject having inflammatory bowel disease by determining in a sample of stool from a subject the ratio of methylated beta-actin DNA to methylated ZDHHC1 DNA. Kits and compositions comprising probes specific for ZDHHC1 DNA and or beta-actin DNA.

None of the further search fees have been paid within the fixed time limit. The present (supplementary) European search report has been drawn up for those parts of the European patent application which relate to the first mentioned in the claims, namely claims: 1-5(completely); 9-15(partially)

The supplementary search report has been based on the last set of claims valid and available at the start of the search.

Place of search The Hague	Date of completion of the search 03 May 2018	Examiner Gabriels, Jan
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CATEGORY OF CITED DOCUMENTS

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Y: particularly relevant if combined with another document of the same category	T: theory or principle underlying the invention
A: technological background	E: earlier patent document, but published on, or after the filing date
O: non-written disclosure	D: document cited in the application
& : member of the same patent family, corresponding document	L: document cited for other reasons

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ANNEX TO SUPPLEMENTARY EUROPEAN SEARCH REPORT

Application number:
EP 15 86 81 40

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on 03-05-2018
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Patent document cited in search report	Publication date	Patent family member(s)	Publication date	
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